

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	Cline-Amos-E.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/19 10:39
L2	3620	((422/1) or (422/6) or (422/20) or (422/128) or (422/257) or (210/188) or (367/140) or (367/142)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/19 10:40
L3	198578	baffles	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/19 10:40
L4	3634625	chamber or vessel or tank	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/19 10:40
L5	91990	L4 same L3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/19 10:40
L6	240	L5 and L2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/19 10:40
S1	2	Cline-Amos-E.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/19 10:39
S2	10	(("6019947") or ("5837303") or ("5611993") or ("5519670") or ("5494585")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 15:20

## EAST Search History

S3	199454	piezoelectric\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 15:34
S4	1	S3 and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 15:38
S5	45	(("2647846") or ("3369519") or ("3376949") or ("3409470") or ("3536157") or ("3690403") or ("3764965") or ("4131178") or ("4252210") or ("4271925") or ("4396088") or ("4713277") or ("4830122") or ("5009272") or ("5079750") or ("5085783") or ("5129320")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 15:39
S6	3	S3 and S5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 15:40
S7	318540	ultrasonic or ultrasound	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 16:14
S8	289	cavitation adj chamber	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 16:15
S9	63	S8 and S3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 16:15
S10	18174	S3 same (chamber or vessel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 16:43

## EAST Search History

S11	1959435	fluid	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 16:43
S12	6478	S10 and S11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 16:44
S13	266	(422/128).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/10 16:44
S14	63	S3 and S13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:09
S15	3532	((422/1) or (422/6) or (422/20) or (422/128) or (422/257) or (210/188) or (367/140) or (367/142)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 11:26
S16	134	S3 and S11 and S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/10 17:18
S17	199550	piezoelectric\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:09
S18	267	(422/128).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 09:09

## EAST Search History

S19	63	S17 and S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:21
S20	3534	((422/1) or (422/6) or (422/20) or (422/128) or (422/257) or (210/188) or (367/140) or (367/142)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/24 13:34
S21	192829	baffles	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/15 15:27
S22	3479554	chamber or vessel or tank	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 11:27
S23	89955	S22 same S21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 11:27
S24	233	S23 and S20	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 11:28
S25	197	S24 and liquid	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/19 10:40
S26	24	S25 and (ultrasound or ultrasonic or acoustic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 11:29

## EAST Search History

S28	253	(turbulent adj flow) same (causing or cause) same (vibrate or vibrating or vibration)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/22 17:46
S29	2	("4129387").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 17:46
S30	10	(("6019947") or ("5837303") or ("5611993") or ("5519670") or ("5494585")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 18:27
S31	0	(Marelli-Erensto.in.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/22 18:28
S32	144	Marelli.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/22 18:28
S33	283	(plurality adj3 baffles) same (apertures) same fluid	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/24 13:20
S34	924	(baffles) with (oscillate or oscillating or oscillation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/24 13:19
S35	2	S33 and S34	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/24 13:19

## EAST Search History

S36	4398	(baffles) same (apertures) same fluid	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/24 13:20
S37	14265	S36 sane S34	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/24 13:20
S38	18	S36 same S34	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/24 13:21
S39	1	(vibrating adj baffles) same (fluid) same (opening or apertures)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/24 13:36
S40	8415	(vibrating or vibration or vibrate or oscillation or oscillating or oscillate) same (baffle)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/24 13:38
S41	2881	S40 and fluid	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/24 13:38
S42	226	S41 and cavitation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/24 13:39
S43	40	S42 and (turbulence or turbulent)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/24 13:39

## EAST Search History

S44	3	(turbulent adj flow) same (causes same (baffles) same (oscillate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/24 13:57
S45	342622	(housing or chamber) and ((baffle or plates) with (openings or orifices or apertures))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/24 14:06
S46	7104494	(fluid or liquid or water)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/24 14:07
S47	8960	(baffles or plates) adj2 (vibrates or vibrating or oscillating or oscillate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/24 14:08
S48	625	S46 with S47	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/24 14:09
S49	175	S48 and S45	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/02 07:22
S50	3576	((422/1) or (422/6) or (422/20) or (422/128) or (422/257) or (210/188) or (367/140) or (367/142)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/02 07:21
S51	196032	baffles	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/02 07:21

## EAST Search History

S52	3565916	chamber or vessel or tank	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/02 07:21
S53	91057	S52 same S51	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/02 07:21
S54	236	S53 and S50	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/02 07:21
S55	198	S54 and liquid.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/02 07:22
S56	2	Cline-Amos-E.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/02 07:22
S57	342911	(housing or chamber) and ((baffle or plates) with (openings or orifices or apertures))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/02 07:22
S58	7111987	(fluid or liquid or water)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/02 07:22
S59	8972	(baffles or plates) adj2 (vibrates or vibrating or oscillating or oscillate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/02 07:22

## EAST Search History

S60	626	S58 with S59	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/02 07:22
S61	175	S60 and S57	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/02 07:24
S62	60	(("0582530") or ("0589708") or ("1391364") or ("1427924") or ("1915867") or ("1947586") or ("2470282") or ("2693391") or ("3298197") or ("3682443") or ("3782694") or ("3856270") or ("4226368") or ("4340311") or ("4501501") or ("4715395") or ("4967440") or ("5127123")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/15 14:37
S63	1	(resonate or resonance or vibration or vibrating or vibrate or ultrasonic or ultrasound or acoustic) and (S62)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/15 15:27
S64	76856	(vibration or vibrating or vibrate) with (baffles or plates)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/15 15:28
S65	1125	138/42	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/15 15:28
S66	13	S64 and S65	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/15 15:28
S67	5306	vibrating adj plates	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/15 15:32

## EAST Search History

S68	47	(S67) and "210"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/15 15:46
S69	2	("0266407").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/15 15:46
S70	16754	((static) adj2 (mixing or mixer))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/15 15:47
S71	89192	((baffles or plates) with (vibrating or vibratory or vibration or vibrate or resonat\$))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/15 15:50
S72	54	S70 and S71	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/15 15:50
S73	2496	(fluid) with (S71)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/15 16:07
S74	68	(S73) and "366"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/15 16:07